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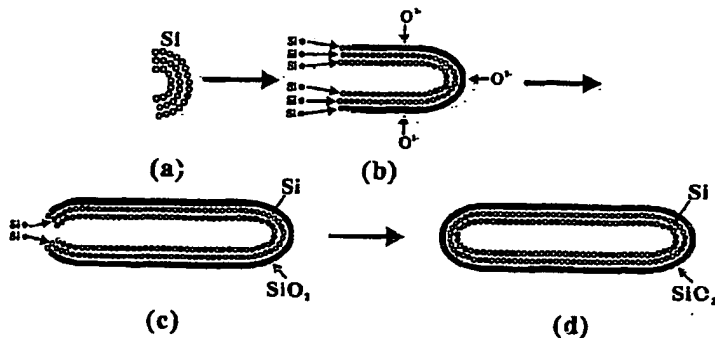
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METHOD FOR PREPARING SELF ASSEMBLED GROWTH SILICON NANO-TUBE BY  
HYDROTHERMAL METHOD

一种水热法制备自组生长的硅纳米管的方法



Abstract: The present invention relates to a method for preparing self assembled growth silicon nano-tube by hydrothermal method. In the method, water is used as solvent, and non-toxic silicon oxide is added to the water, then mixture of silicon oxide and water is fed into a sealed reaction kettle while stirring, the mixture is kept at a certain temperature and a pressure for a period of time; the weight of the said silicon oxide is not more than 10% of weight of the solvent, and a stirrer is used for stirring. The present invention completely utilizes non-toxic raw materials, and the materials and process do not pollute the environment, so the method satisfies the development trend of modern industry.

[见续页]

(57) Abstract: The present invention relates to a method for preparing self assembled growth silicon nano-tube by hydrothermal method. In the method, water is used as solvent, and non-toxic silicon oxide is added to the water, then mixture of silicon oxide and water is fed into a sealed reaction kettle while stirring, the mixture is kept at a certain temperature and a pressure for a period of time; the weight of the said silicon oxide is not more than 10% of weight of the solvent, and a stirrer is used for stirring. The present invention completely utilizes non-toxic raw materials, and the materials and process do not pollute the environment, so the method satisfies the development trend of modern industry.

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(57) 摘要

水热法制备自组生长的硅纳米管的方法，以水为溶剂，加入无毒硅氧化物，混合后置入密封反应釜中，均匀搅拌，于一定温度、压力下保温一定时间，所述硅氧化物的量不大于溶剂重量的 10%，采用磁力搅拌器搅拌。本发明完全采用的是无毒原材料，原材料及制备过程均对环境无污染，完全符合环保要求的现代工业的发展方向。